



MIAMI BEACH

OFFICE OF THE CITY MANAGER

NO. LTC # 237-2012

LETTER TO COMMISSION

TO: Mayor Matti Herrera Bower and Members of the City Commission

FROM: Kathie G. Brooks, Interim City Manager 

DATE: September 11, 2012

SUBJECT: Progress Report on the City's Local Mitigation Strategy Projects relative to Property Owner Discounts on Flood Insurance Premiums

Introduction and Background

Miami-Dade County is the designated local coordinator of the Local Mitigation Strategy Program (LMS) for the Miami-Dade County area, and prepares all the municipal components of the program into a single unified Countywide Local Mitigation Strategy. The primary mitigation goal of the LMS is to reduce vulnerability to natural, technological and societal hazards from all sources, but especially in South Florida from hurricanes, tornadoes, floods and other severe weather events.

The City's participation in the LMS improves its standing and classification in the Community Rating System, making flood insurance under the National Flood Insurance Program more affordable. The Community Rating System (CRS) is a points based system program that reduces flood insurance premiums for the citizens of participating communities. In the CRS program, flood insurance premiums are adjusted to reflect community activities that reduce flood damage to existing buildings, protect new buildings beyond the minimum National Flood Insurance Program (NFIP) protection level, help insurance agents obtain flood data and help people obtain flood insurance. There are 10 CRS classes: Class 1 requires the most credit points and gives the greatest premium reduction. Class 10 receives no premium reduction.

Currently the City is a Class 6 community, and as such, the City's residents have been receiving a 20% discount in their flood insurance premium (equivalent to approximately \$5 million annually for more than 46,000 policies citywide). NFIP has requested that the City of Miami Beach produce a LMS progress report on an annual basis. The Federal Emergency Management Administration (FEMA) requires this report to be submitted to the City's governing body.

On June 6, 2000 the Miami-Dade Board of County Commissioners passed Resolution R-572-00 to adopt the Local Mitigation Strategy (LMS). Miami-Dade County has a metropolitan form of government; which means that each of the municipalities within the County has also automatically adopted the LMS.

On July 12, 2006, the City of Miami Beach adopted Resolution Number 2006-26249 adopting the Miami-Dade County Local Mitigation Strategy.

Program Continuity and Strategy to Inform the Public

City staff attends the Miami-Dade County Local Mitigation Strategy meetings once each calendar quarter. Additionally, the latest published version of the Local Mitigation Strategy, along with meeting times, dates and locations are posted on the Miami-Dade County LMS website at: www.miamidade.gov/oem/lms.asp

This memorandum will be made available to the public through the media and City Clerk's Office.

The following is a progress report on the projects listed in the City's Local Mitigation Strategy:

Flooding: Drainage Improvement Projects

These projects have been specifically selected to improve the drainage system for the flood repetitive loss areas. Improvements consist of drainage improvements to mitigate street level flooding, reduce property flooding concerns and improve emergency response vehicle access. These projects will alleviate chronic neighborhood flooding situations.

Biscayne Point Drainage Improvements: Construction of drainage improvements at Stillwater Drive and 85th and 86th street in Biscayne Beach.

Status: The project is currently under construction.

Bayshore Drainage Improvements: Construction of drainage improvements from Lower Bay Road between 21st to 23rd Streets and also between 27th and Alton Road.

Status: The project is currently under construction.

West Avenue Drainage Improvements: Drainage improvements are proposed for the West Avenue / Bay Road neighborhood.

Status: The project is in design phase.

Flamingo / Lummus Drainage Improvements: Drainage improvements are proposed for the Flamingo / Lummus neighborhood along the only east / west rights-of-ways that connect designated emergency evacuation rights-of-way in the South Beach area.

Status: The project is in design phase.

La Gorce Drainage Improvements: Drainage improvements for the La Gorce Park Area bounded 63rd Street on South, N. Bay Road, West and intercostals on East and North.

Status: The project is in design phase.

Lake Pancoast Area Drainage Improvements: Construction of drainage improvements for West 24th Street, Lake Pancoast Drive, and West 25th Street.

Status: The project is currently under construction.

Palm and Hibiscus Area Drainage Improvements: Construction of drainage improvements for Palm and Hibiscus Islands.

Status: The project is currently under design.

Lakeview Drainage Improvements: Construction of drainage improvements for the Lakeview Area bounded by 51st Street to north, N. Bay Road to west, Cherokee Avenue to east and Lake View Drive to south.

Status: The project is in design phase.

Parkview Canal Seawall Revetment: This project includes constructing revetment along eroded bank areas.

Status: This is a future unfunded project.

Extensive Repairs to Seawalls: Citywide repair of seawalls in order to mitigate the damage to the inland shoreline located throughout the City.

Status: Wofford Park and Alton & I-95 projects are complete, Bonita Drive North project is in the planning phase.

Canal Cleaning and Shaping – Citywide: Dredging of the approximately 12 miles of inland canals located within the City. This would directly impact the ability of the canal to hold tidal flooding and minimize flooding of surrounding properties during significant weather events.

Status: This is a future unfunded project.

Flood Proofing Sewer and Pump Stations: Relining and sealing 31 pump stations and 500 manholes to prevent water intrusion which would damage pump station equipment and structures to prevent failure of stations thereby avoiding flooding.

Status: Construction ongoing.

Stormwater Outfall and Seawall Reconstruction: Replacement of seawalls and 150 stormwater outfalls with associated relining of piping leading to outfalls as part of a comprehensive program of drainage improvement projects which will alleviate chronic neighborhood flooding situations

Status: Construction ongoing.

City Center – Historic District Drainage Improvements: Construction of drainage improvements from Lincoln Lane North on the south, Washington Avenue on the west, 21st St on the north, and Collins Avenue on the east are part of a comprehensive program of drainage improvement projects, which will alleviate chronic neighborhood flooding situations. The project includes construction of new catchbasins and outfalls with associated piping. The stormwater will be treated using new gravity wells.

Status: The project is approximately 90% complete.

Central Bayshore Drainage Improvements: Construction of drainage improvements from 28th Street on the south, Alton Road on the west, 41st Street on the north, and Pine Tree Drive on the east are part of a comprehensive program of drainage improvement projects, which will alleviate chronic neighborhood flooding situations. The project includes construction of new catchbasins and outfalls with associated piping. The stormwater will be treated using new gravity and pumped wells.

Status: The project is currently under construction.

Sunset Islands I & II Drainage Improvements: Construction of drainage improvements on these islands are part of a comprehensive program of drainage improvement projects, which will alleviate chronic neighborhood flooding situations. The project includes construction of new catchbasins and outfalls with associated piping. The stormwater will be treated using new exfiltration trenches.

Status: The project is currently under construction.

Sunset Islands III & IV Drainage Improvements: Construction of drainage improvements on these islands are part of a comprehensive program of drainage improvement projects, which will alleviate chronic neighborhood flooding situations. The project includes construction of new catchbasins and outfalls with associated piping. The stormwater will be treated using new gravity wells and/or exfiltration trenches.

Status: Project is in design phase.

Oceanfront Drainage Improvements: Construction of drainage improvements from 27th Street on the south, Indian Creek on the west, 44th Street on the north, and Miami Beach Drive on the east are part of a comprehensive program of drainage improvement projects, which will alleviate chronic neighborhood flooding situations. The project includes construction of new catchbasins and outfalls with associated piping. The stormwater will be treated using new gravity wells and/or exfiltration trenches.

Status: This is a future project.

South Pointe II Drainage Improvements: Construction of drainage improvements south of 5th Street are part of a comprehensive program of drainage improvement projects, which will alleviate chronic neighborhood flooding situations. The project includes construction of new catchbasins and outfalls with associated piping. The stormwater will be treated using new gravity wells and/or exfiltration trenches.

Status: The project is complete.

South Pointe III – V Drainage Improvements: Construction of drainage improvements south of 5th Street are part of a comprehensive program of drainage improvement projects, which will alleviate chronic neighborhood flooding situations. The project includes construction of new catchbasins and outfalls with associated piping. The stormwater will be treated using new gravity wells and/or exfiltration trenches.

Status: The project is approximately 90% complete.

Star Island Drainage Improvements: Construction of drainage improvements on the island are part of a comprehensive program of drainage improvement projects, which will alleviate chronic neighborhood flooding situations. The project includes construction of new catchbasins and associated piping. The stormwater will be treated using new gravity wells and/or exfiltration trenches.

Status: Project is in the construction phase.

Venetian Islands Drainage Improvements: Construction of drainage improvements on the islands are part of a comprehensive program of drainage improvement projects, which will alleviate chronic neighborhood flooding situations. The project includes construction of new catchbasins and outfalls with associated piping. The stormwater will be treated using new gravity wells and/or exfiltration trenches.

Status: The project is currently out for bid.

Sunset Harbor Pump Station Upgrades: As a result of changed stormwater regulations, this project will provide a higher level of stormwater service to the Sunset Harbor neighborhood. The project will upgrade three neighborhood pump stations and include three drainage injection wells (Purdy Ave/Dade Blv.) (Purdy Mains) (20th Street/West Ave).

Status: The project is in the pre-construction phase.

48" Outfall at Easement 4180 – 4200 Chase Avenue: Improvements include building a new 48" outfall; traffic control and all ancillary and miscellaneous work. This project will improve the performance of the existing stormwater system and provide adequate flood protection in the area. The proposed improvements to the stormwater system identified at this location based on recommendation in a study requested by the Public Works Department to address localized flooding under current conditions. When completed this project will produce a stormwater system capable of providing a high level of service in the area.

Status: This is a future project.

Belle Island Outfall Replacement: Replacement of three (3) outfall pipes along the Venetian Causeway East Bridge and Farrey Lane. The outfall pipes need to be replaced to complete the Belle Isle Stormwater Improvements, to alleviate the recirculation of water at the easternmost Venetian Causeway Bridge, and to replace the deteriorated outfall pipes.

Status: Phase I was completed and replaced; Phase II is a future project.

Middle North Bay Road Drainage Improvements: This project addresses numerous resident complaints and staff observations regarding a low storm water service level in the neighborhood. Drainage improvements would include additional drainage collection, conveyance, treatment and disposal facilities.

Status: This is a future unfunded project.

Windstorm

Storm Shutters and Protective Glass for City Buildings: To provide protection during a significant weather event.

Status: Miami Beach Botanical Garden and Log Cabin are future unfunded projects. Fire Stations 1 and 3, Police Station and City Hall are complete. 555 17th Street, 1701 Meridian Avenue, 21st Street Community Center and Fleet Management Building are underway.

Streetlight System Upgrade: When flooding occurs in low areas both residential and commercial, water intrusion occurs inside the bases of the streetlight poles and results in the malfunction of the lighting system. This project improvement will include re-wiring and placing individual fuses at each pole base and eliminate streetlight service interruptions, and damages to the street lighting infrastructure system.

Status: Project is ongoing.

Citywide Dune Enhancement Project: To enhance and restore the City's dune system to retain sand and protect upland structures from storm surges and flooding impacts.

Status: The project is in the Planning Phase.

Talmudic University: Protective storm shutters and impact resistant glass for the Talmudic University located at 4000 Alton Road.

Status: Anticipated completion date is June 2015.

Mount Sinai Hospital: Includes building hardening, installation of a protective perimeter barrier, installation of phase 1 of drainage and stormwater improvements and relocation of generator and construction enhancements to a new medical office tower, central energy plant and surgical tower.

Status: The project is underway. Funding has been received for a portion of the Energy Center project.

Other Hazards

Miami Beach Interoperability / Communications / EOC Program: This project includes enhancements to the City's EOC, such as a Computer Aided Dispatch/Records Management System, 911 Workstations, a microwave radio system and PSCU upgrade, etc.
Status: The project is complete.

Citywide Water Infrastructure Improvements: This project will implement the City of Miami Beach Water System Master Plan; the project includes the replacement of aging water lines (60+ years old).
Status: This project is ongoing.

Citywide Stormwater Infrastructure Improvements: The City's Master Plan effort identified over 160 drainage basins in the City of Miami Beach. Approximately 34 of these basins were identified as a priority. The City has committed to improving the facilities within the 34 priority basins.
Status: This project is ongoing.

Citywide Wastewater Infrastructure Improvements: The wastewater lines were built between 1926 and 1956, and the pipes are either beyond or at the end of their useful life.
Status: This project is ongoing.

Portable Traffic Light Signals: Ten (10) portable traffic signals for emergency situations.
Status: The City is seeking grant and alternate funding for this project.

West Avenue Bridge: To relieve congestion on Alton Road, reduce the volume of local traffic at the busiest intersections and provide a safer venue for road users to access the causeway to Miami.
Status: The project is in design phase.

Regional Communication/Command Van: Regional Communications/Command Van for Miami Beach and neighboring barrier island communities. This Regional capability is crucial, in a natural disaster or terrorist incident, our ability to receive assistance from the mainland can be non-existent. The ability to communicate and continue to operate public safety is crucial in the event of a major incident. As the largest of the barrier island communities, Miami Beach would be in position to provide public safety services to neighboring municipalities and provide command and control for a unified operation.
Status: The City has targeted grant funds and is proposing City Police Confiscation funds for this project.

Projects Completed Since 2005

<u>Project Name</u>	<u>Total Project Budget</u>	<u>Fiscal Year Project Completed</u>
7th & 8th Street (BP-10B) Streets/Sidewalks Improvements	\$1,650,000	2007/08
8th Street Spot Flooding Remediation (hot spot)	\$75,000	2008/09
16th Street Drainage Improvements	\$1,094,815	2007/08
69th Street from Biscayne Bay to Collins	\$78,645	2009/10
Bay Road Drainage Pump Station Close-out	\$15,022	2006/07
Bay Road Streets/Sidewalks Improvements (14 to 16th Streets)	\$1,020,000	2004/05
Drainage Improv W 44 St & Royal Palm	\$650,000	2010/11
Flamingo Box Culverts BP 10A	\$580,000	2006/07
Flamingo Lummus BP 10B Streets/Sidewalks Improvements	\$15,223,163	2007/08
Flamingo Lummus BP 10D Streets/Sidewalks Improvements (Washington Avenue)	\$17,112,249	2006/07
Flamingo Neighborhood (Lennox & 6th) Bid Pack 1A	\$1,034,855	2008/09
Miami Beach Golf Course - Drainage Well	\$100,000	2006/07
Nautilus BP 7 Streets/Sidewalks Improvements	\$39,861,900	2010/11
Normandy Isle Normandie Sud BP 4 Streets/Sidewalks Improvements	\$14,493,003	2009/10
Normandy Shores BP 3 Streets/Sidewalks Improvements	\$16,967,260	2010/11
Oceanfront BP 6 Streets/Sidewalks - Phase 1b - 40th Street & Collins Ave.	\$180,000	2009/10
Oceanfront BP 6 Streets/Sidewalks Improvements: Phase I	\$5,918,547	2007/08
Oceanfront BP 6 Streets/Sidewalks Improvements: Phase II	\$5,197,344	2010/11
South Pointe Streetscape Phase II BP 12C Streets/Sidewalks Improvements	\$9,219,907	2010/11
Stormwater Pipe - Repairs	\$331,960	2010/12
Stormwater System Prairie Avenue	\$2,000,000	2007/08
Venetian Islands BP 13B - Belle Isle Streets/Sidewalks & Park Improvements	\$8,876,397	2007/08
Waterways Dredging	\$105,954	2011/12
North Bay Road & 45th Street - Drainage Hot Spot	\$135,588	2011/12
Washington Ct., Between Washington Ave. & Park Ave	\$400,000	2011/12
Sunset Islands 1 & 2 Replacement of Two Outfalls	\$307,998	2010/11
Biarritz and Rue Granville	\$44,880	2010/11
Prairie Avenue	\$641,000	2011/12

Recommendations:

1. The City will continue to participate in Miami-Dade County's LMS program and monitor the projects, as needed.
2. The City will continue to have various outreach projects to inform the residents and visitors about hurricanes and floods preparedness and safety.

Please contact me if you need any additional information.

KGB/JMH/FV/FHB/SS/MJ